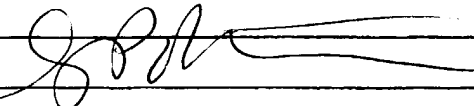


*Substitute for form 144B/PTO  INFORMATION DISCLOSURE STATEMENT BY APPLICANT  (use as many sheets as necessary)				Complete if Known	
				Application Number	09/806370
				Filing Date	September 30, 1999
				First Named Inventor	Randall K. Holmes
				Group Art Unit	
Examiner Name					
Sheet	1	of	1	Attorney Docket Number	33,383-00

U.S. PATENT DOCUMENTS						
Examiner Initials*	Cite No.	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number (If known)	Kind Code (If Known)			
188	1.	5182109		Tamura	01-26-1993	

FOREIGN PATENT DOCUMENTS								
Examiner Initials*	Cite No.	Foreign Patent Document			Name of Patentee or Applicant of Cited document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T
		Office	Number	Kind Code (If Known)				
188	2.	PCT	WO 93/13202		Domenighini	07-08-1993		<input type="checkbox"/>
	3.	PCT	WO 96/06627		Clements	03-07-1996		<input type="checkbox"/>
	4.	PCT	WO 97/02348		Pizza	01-23-1997		<input type="checkbox"/>
	5.	PCT	WO 97/05267		King	02-13-1997		<input type="checkbox"/>
	6.	PCT	WO 98/45324		McGhee	10-15-1998		<input type="checkbox"/>
	7.	PCT	WO 97/29771		Fontana	08-21-1997		<input type="checkbox"/>
	8.	PCT	WO 98/32461		Clements	07-30-1998		<input type="checkbox"/>
	9.	PCT	WO 98/42375		Barchfeld	10-01-1998		<input type="checkbox"/>

OTHER PRIOR ART — NON PATENT LITERATURE DOCUMENTS								
Examiner Initials*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published.						T
188	10.	JOBLING, MICHAEL G., Analysis of the Structure and Function of Cholera Toxin A Subunit, Abstracts of the General Meeting-1991, American Society for Microbiology, p. 59, Abstract No. B-205.						<input type="checkbox"/>
	11.	GLINEUR, CORINE, Importance of ADP-Ribosylation in the Morphological Changes of PC12 Cells Induced by Cholera Toxin, Infection and Immunity, Oct. 1994, pp. 4176-4185, Vol. 62, No. 10.						<input type="checkbox"/>
	12.	LYCKE, N., Strong Adjuvant Properties of Cholera Toxin on Gut Mucosal Immune Responses to Orally Presented Antigens, Immunology, 1986, pp. 301 - 308, Vol. 59.						<input type="checkbox"/>
	13.	MCKENZIE, SARA J., Cholera Toxin B Subunit as a Carrier Protein to Stimulate a Mucosal Immune Response, The Journal of Immunology, October 1984, pp. 1818 - 1824, Vol. 133, No. 4.						<input type="checkbox"/>
	14.	MEKALANOS, JOHN J., Cholera Toxin Genes: Nucleotide Sequence, Deletion Analysis and Vaccine Development, Nature, December 8, 1983, pp. 551 - 557, Vol. 306.						<input type="checkbox"/>
	15.	NEDRUD, JOHN, Oral Immunization Against Respiratory Viruses in Mice, Advances in Mucosal Immunology, 1995, Vol. 371B, pp. 1595 - 1598.						<input type="checkbox"/>
	16.	ELSON, CHARLES O., Generalized Systemic and Mucosal Immunity in Mice After Mucosal Stimulation with Cholera Toxin, The Journal of Immunology, June 1984, pp. 2736 - 2741, Vol. 132, No. 6.						<input type="checkbox"/>
	17.	ELSON, CHARLES O., Cholera Toxin Feeding Did Not Induce Oral Tolerance in Mice and Abrogated Oral Tolerance to an Unrelated Protein Antigen, The Journal of Immunology, December 1984, pp. 2892 - 2897, Vol. 133, No. 6.						<input type="checkbox"/>
	18.	RICHARDS, C.M., Enhancement of the Immune Response to Non-replicating Herpes Simplex Virus Type-1 Preparations by Mucosal Administration in the Presence of Cholera Toxin, Vaccine, 1997, pp. 1065 - 1069, Vol. 15, No. 10.						<input type="checkbox"/>
	19.	YAMAMOTO, SHINGO, Mutants in the ADP-ribosyltransferase Cleft of Cholera Toxin Lack Diarrheagenicity but Retain Adjuvanticity, J. Exp. Med., April 7, 1997, pp. 1203-1210, Vol. 185, No. 7.						<input type="checkbox"/>

Examiner Signature		Date Considered	3/2002
--------------------	---	-----------------	--------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

PTO/SB/08a (06-03)  
Approved for use through 4/30/2003. OMB 0651-0031  
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

<b>Substitute for form 1449A/PTO</b>  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)		<b>Complete if Known</b>			
		Application Number	09/806,370		
		Filing Date	September 30, 1999		
		First Named Inventor	Holmes et al.		
		Group Art Unit	1645		
Examiner Name	Portner				
Sheet	1	of	2	Attorney Docket Number	33,383-00

RECEIVED  
NOV 18 2003  
TECH CENTER 1600/2900

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
		US-			

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup> - Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)				
VB	AL	WO-92/19265	11-12-1992	AMGEN		

Examiner Signature		Date Considered	3/2004
--------------------	--	-----------------	--------

\* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 USC 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22304-1450.




Approved for use through 6/30/2003. OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449B/PTO  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)				<b>Complete if Known</b>	
				Application Number	09/806,370
				Filing Date	September 30, 1999
				First Named Inventor	Holmes et al.
				Group Art Unit	1645
				Examiner Name	Portner
				Attorney Docket Number	33,383-00
Sheet	2	of	2		

[illegible]

Examiner Signature		Date Considered	3/2004
--------------------	---	-----------------	--------

\* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 USC 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, 2000 M Street, N.W., Washington, D.C. 20593.